

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/044010 A1

(51) International Patent Classification⁷: **A01N 51/00**

Sinzheim (DE). ROPER, David, Vincent [GB/GB];
15 Beaulieu Gardens, Compton Acres, West Bridgford,
Nottingham NG2 7TL (GB).

(21) International Application Number:
PCT/EP2004/011024

(74) Common Representative: **BASF AKTIENGESELLSCHAFT**, 67056 Ludwigshafen (DE).

(22) International Filing Date: 2 October 2004 (02.10.2004)

(25) Filing Language: **English**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: **English**

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(30) Priority Data:
0326284.7 11 November 2003 (11.11.2003) GB

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant (for all designated States except US): **BASF AKTIENGESELLSCHAFT** [DE/DE]; 67056 Ludwigshafen (DE).

(71) Applicant (for US only): **GÖTTSCHE**, Helga (heiress of the deceased inventor) [DE/DE]; Maria-Viktoria-Strasse 31, 76530 Baden-Baden (DE).

(72) Inventor: **GÖTTSCHE**, Reimer (deceased).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HUFF**, Jürgen [DE/DE]; Hagellochstrasse 48, 67063 Ludwigshafen (DE). **QURESHI**, Shoalb [GB/GB]; 4 Maple Close, Birmingham, Nottinghamshire NG13 8G (GB). **HODGKINSON**, Darren [GB/GB]; 1 Dorothy Avenue Hucknall, Nottingham NG15 8DL (GB). **NICKLIN**, Craig [GB/GB]; 169 Burton Road, Gedling, Nottingham NG2 4QF (GB). **HETTLER**, Wendelin [DE/DE]; Panoramastrasse 16, 76547

(54) Title: MICROBICIDAL COMPOSITIONS AND THEIR USE

(57) Abstract: A composition comprising a copper salt of N'-hydroxy-N-cyclohexyldiazonium oxide (CuHDO) and a diluent is useful for combating and/or killing bacteria, mould, yeast and algae in industrial materials and or industrial processes. In a preferred embodiment CuHDO is generated in-situ within the application or medium. The composition may additionally include at least one or certain other biocidal active components.

WO 2005/044010 A1